

initial L_p term;

(b) adjusting the admission threshold according to a result of the initial L_p term monitored in step

(a); and

(c) repeating the steps (a) and (b) for a successive L_p term, while changing a value of a second term S_p until the target handoff dropping probability is satisfied during the successive L_p term, which is longer than or equal to the initial L_p term and includes the initial L_p term.

5. (Amended) An apparatus for adaptively adjusting an admission threshold in a wireless network including a plurality of cells, a base station controller associated with a particular cell of the plurality of cells adaptively adjusts the admission threshold for determining whether to admit or drop a handoff call requested from a cell adjacent to one of the cells in communication with a mobile station, to satisfy a target handoff dropping probability for guaranteeing a quality of service (QoS), the apparatus comprising:

a monitoring block for monitoring the number of handoff drops versus the number of occurred handoff calls for an initial L_p term;

a comparator for comparing a monitoring result with the target handoff dropping probability; and an adjusting block for adjusting the admission threshold according to a comparison result output from the comparator;

wherein the monitoring block monitors a successive L_p term, while changing a value of a second term S_p until the target handoff dropping probability is satisfied during the second term S_p , which is longer than or equal to the initial L_p term and includes the initial L_p term, the comparator and the adjusting block performing corresponding operations according to the comparison result.

9. (Amended) A method for adaptively adjusting an admission threshold in a wireless network including a plurality of cells, wherein a base station controller associated with a particular cell of the plurality of cells adaptively adjusts the admission threshold for determining whether to admit or drop a handoff call requested from a cell adjacent to one of the cells in communication with a mobile station, to satisfy a target handoff dropping probability for guaranteeing a quality of service (QoS), the method comprising the steps of:

(b) monitoring the number of handoff drops versus the number of occurred handoff calls for an

A3 initial L_p term;

(c) adjusting the admission threshold according to the monitoring result;

(d) transmitting a message for adjusting an admission threshold from the cells adjacent to said one adjacent cell according to adjustment of the admission threshold; and

(e) repeating the steps (b) to (d) for a successive L_p term, while changing a value of a second term S_p until the target handoff dropping probability is satisfied during the second term S_p which is longer than or equal to the initial L_p term and includes the initial L_p term.

13. (Amended) An apparatus for adaptively adjusting an admission threshold in a wireless

network including a plurality of cells, wherein a base station controller associated with a particular cell of the plurality of cells adaptively adjusts the admission threshold for determining whether to admit or drop a handoff call requested from a cell adjacent to one of the cells in communication with a mobile station, to satisfy a target handoff dropping probability for guaranteeing a quality of service (QoS), the apparatus comprising:

a monitoring block for monitoring the number of handoff drops versus the number of occurred

handoff calls for an initial L_p term;

a comparator for comparing the monitoring result with the target handoff dropping probability;

an adjusting block for adjusting the admission threshold according to a comparison result output from the comparator; and

a message transmission block for transmitting a message for adjusting an admission threshold from the cells adjacent to said one adjacent cell according to an adjustment of the admission threshold;

wherein the monitoring block monitors a successive L_p term, while changing a value of a second term S_p until the target handoff dropping probability is satisfied during the second term S_p , which is longer than or equal to the initial L_p term and includes the initial L_p term, and the comparator, the adjusting block and the message transmission block perform corresponding operations according to the comparison result.

17: (Amended) A method for controlling admission of a requested handoff call in a wireless network including a plurality of cells, wherein one of a base station controller associated with a particular cell of the plurality of cells controls admission of the requested handoff call, when a handoff call is requested to one of a plurality of cells adjacent to one of the cells in communication with a mobile station, the method comprising the steps of:

(a) upon receipt of a new call request to the adjacent cell, comparing a sum of an allocated bandwidth of said adjacent cell and a bandwidth for the requested new call with an admission threshold of said adjacent cell, and determining whether to admit or block the requested new call;

(b) monitoring the number of handoff drops versus the number of requested handoff calls for an initial L_p term;

(c) adjusting the admission threshold according to the monitoring result and a target handoff

dropping probability for guaranteeing a quality of service (QoS);

(d) transmitting a message for adjusting an admission threshold from the cells adjacent to said one adjacent cell according to adjustment of the admission threshold; and

(e) repeating the steps (b) to (d) for a successive L_p term, while changing a value of a second term S_p until a target call blocking probability is satisfied during the second term S_p which is longer than or equal to the initial L_p term and includes the initial L_p term.

22. (Amended) An apparatus for controlling admission of a requested handoff call in a

wireless network including a plurality of cells, wherein one of a base station associated with a particular cell of the plurality of cells controls admission of the requested handoff call, when a handoff call is requested to one of a plurality of cells adjacent to one of the cells in communication with a mobile station, the method comprising the steps of:

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a call admitting/dropping decision block for comparing, upon receipt of a new call request to the adjacent cell, a sum of an allocated bandwidth of said adjacent cell and a bandwidth for the requested new call with an admission threshold of said adjacent cell, and determining whether to admit or block the requested new call;

a monitoring block for monitoring the number of handoff drops versus the number of requested handoff calls for an initial L_p term;

a comparator for comparing the monitoring result with a target handoff dropping probability for guaranteeing a quality of service (QoS);

an adjusting block for adjusting the admission threshold according to the comparison result;

a message transmission block for transmitting a message for adjusting an admission threshold from the cells adjacent to said one adjacent cell according to adjustment of the admission threshold; and